Inter I Application No PCT/IB 03/02541

A. CLASSII IPC 7	B01J20/18 B01D53/04 B01J20/3	4 B01D15/00 C	10G25/05		
	o International Patent Classification (IPC) or to both national classification	lion and IPC			
	cumentation searched (classification system followed by classification B01J B01D C10G	n symbols)			
Documentat	ion searched other than minimum documentation to the extent that su	ich documents are included in the fi	elds searched		
Electronic da	ata base consulted during the international search (name of data bas	e and, where practical, search terms	s used)		
EPO-In	ternal, WPI Data, PAJ				
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.		
A	EP 0 511 885 A (CECA SA) 4 November 1992 (1992-11-04) page 2, line 48 page 2, line 33 - line 53		1,3,4,8, 13-16		
A	WO 00/71249 A (ZEOCHEM) 30 November 2000 (2000-11-30) page 17, line 14 - line 16 page 16, line 25 - page 17, line page 16, line 3 - line 24	2	1-4, 13-16		
A	US 6 096 194 A (TSYBULEVSKIY ALBE AL) 1 August 2000 (2000-08-01) column 6, line 7 - line 16	RT M ET /	1-7, 13-15		
X Furt	her documents are tisted in the continuation of box C.	X Patent family members are	listed in annex.		
"A" docume consider the filter to the country of the citation other "P" docume later the country of the citation of the citati	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	 Tr later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention Xr document of particular relevance; the ctalmed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Yr document of particular relevance; the ctalmed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. document member of the same patent family 			
	actual completion of the international search 3 April 2004	Date of mailing of the international search report 28. 04. 2004			
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Hillgenga, K			

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Int |sl Application No PCT/IB 03/02541

Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Jategory	Chatton of document, with indicators, where appropriate, of the relevant passages	Trainvain to claim tro.
A	US 5 057 473 A (VOECKS GERALD E ET AL) 15 October 1991 (1991-10-15) column 4, line 1 - line 35 column 5, line 25	1,13,14
A	DATABASE WPI Section Ch, Week 198731 Derwent Publications Ltd., London, GB; Class H01, AN 1987-220075 XP002265291 & SU 1 274 746 A (NATURAL GAS PROC IN) 7 December 1986 (1986-12-07) abstract	1,13,14, 17,24
A	DATABASE WPI Section Ch, Week 200067 Derwent Publications Ltd., London, GB; Class H04, AN 2000-687626 XP002265292 & WO 00/67898 A (LIN K) 16 November 2000 (2000-11-16) abstract	1,13,14
A	US 6 103 949 A (VIERHEILIG ALBERT A ET AL) 15 August 2000 (2000-08-15) column 9, line 5 - line 19 column 8, line 7 - line 45 column 7, line 20 - line 27	1,10,13
Α	US 6 264 881 B1 (D. PLEE) 24 July 2001 (2001-07-24) column 3, line 50 - line 65	1,3-9,13
А	WO 96/03199 A (CECA S.A.) 8 February 1996 (1996-02-08) page 2, line 1 - line 10 page 1, line 33 - line 36 page 3, line 19 - line 22	1
A	LANGMUIR, vol. 15, no. 18, 1999, - 25 February 1999 (1999-02-25) pages 5781-5784, XP002265290 page 5783, right-hand column, last paragraph page 5784; figure 4	
A	DE 37 05 624 A (BAYER AG) 1 September 1988 (1988-09-01) claims 1,2	1
X	US 4 404 118 A (L.E. HERSKOVITS) 13 September 1983 (1983-09-13) column 5, line 32 column 6, line 30 - line 33 column 4, line 55 - line 64	17,21, 24,25

Int pal Application No
PCT/IB 03/02541

Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
alegory *	Oracion of Goodineria, with indication, where appropriate, or the referent passages	TOO TO THE TOO COMMITTEE.
X	DATABASE WPI Section Ch, Week 199133 Derwent Publications Ltd., London, GB; Class H01, AN 1991-244298 XP002276682 & SU 1 611 859 A (VOLGO-URAL HYDROGEN) 7 December 1990 (1990-12-07) abstract	17-20
A	US 4 098 684 A (R.A INNES) 4 July 1978 (1978-07-04) column 4, line 41 - line 49 column 3, line 15 - line 21	17,24,25

tional application No. PCT/IB 03/02541

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12,13,14-16

A process to produce a formed zeolite for adsorption purposes with improved adsorption and desorption properties. A zeolitic adsorption compound obtainable according to this process.

A process to remove by adsorption one or more low molecular weight organic sulfur compounds from a gaseous or liquid stream, wherein the feed stream is passed through a bed of formed zeolitic molecular sieve.

2. claims: 17-25

A desorption process for the desorption of organic sulfur compounds from a formed faujasite zeolite, in particular formed zeolite 13% or formed zeolite LS%, or a mixture of formed zeolite 13% and formed zeolite LS%, wherein the desorption is done by a heating profile allowing the organic sulfur compounds to reach their equilibrium adsorption capacity at each temperature.

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PCT/IB 03/02541

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0511885	A	04-11-1992	FR AT DE DE DK EP ES GR	2675712 124884 69203379 69203379 511885 0511885 2074840 3017600	T D1 T2 T3 A1 T3	30-10-1992 15-07-1995 17-08-1995 04-04-1996 27-11-1995 04-11-1992 16-09-1995 31-01-1996
WO 0071249	A	30-11-2000	AU WO US	5130500 0071249 2002009404	A1	12-12-2000 30-11-2000 24-01-2002
US 6096194	Α	01-08-2000	AU WO	3272701 0139878	A A2	12-06-2001 07-06-2001
US 5057473	Α	15-10-1991	NONE			
SU 1274746	Α	07-12-1986	SU	1274746	A1	07-12-1986
WO 0067898	Α	16-11-2000	AU AU WO WO CN	4534000 5965599 0067898 0067897 1288778	A A1 A1	21-11-2000 21-11-2000 16-11-2000 16-11-2000 28-03-2001
US 6103949	Α	15-08-2000	US WO	5958818 9959720		28-09-1999 25-11-1999
US 6264881	B1	24-07-2001	FR AU BR CN CZ DE DE EP ES HU PT TR TW ZA	2766475 236083 736403 8634998 9806072 2266385 1109653 9901008 69812872 69812872 932581 1175 0932581 2195367 9905063 0004623 2001501166 332286 932581 36299 9900628 460411 9806398	T B2 A A1 B A3 D1 T2 T3 B1 A1 T3	29-01-1999 15-04-2003 26-07-2001 16-02-1999 24-08-1999 04-02-1999 28-05-2003 15-12-1999 08-05-2003 08-01-2004 28-07-2003 30-10-2000 04-08-1999 01-12-2003 04-02-1999 28-04-2001 30-01-2001 30-08-1999 31-07-2003 10-12-1999 22-11-1999 21-10-2001 17-05-1999
WO 9603199	A	08-02-1996	WO AT AU CA DE	9603199 205742 7347294 2195683 69428375	A1 T A A1	08-02-1996 15-10-2001 22-02-1996 08-02-1996 25-10-2001

Inte	al Application No	
PCT/	'IB 03/02541	

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9603199	A		EP	0783362	A1	16-07-1997
			JP	10505536	T	02-06-1998
			RU	2127631	C1	20-03-1999
			SG	28472		01-04-1996
			US	5609842	Α	11-03-1997
DE 3705624	Α	01-09-1988	DE	3705624	A1	01-09-1988
US 4404118	Α	13-09-1983	AU	553729	B2	24-07-1986
			AU	9189482	Α	26-04-1985
			CA	1188668	A1	11-06-1985
			DE	3269913	D1	17-04-1986
			EP	0083203		06-07-1983
			JP	1414740	-	10-12-1987
			JP	58159846		22-09-1983
			JP	62020848	_	09-05-1987
			MX	159026		11-04-1989
			NO	824377		29-06-1983
			NZ	202869	A	30-04-1985
SU 1611859	A	07-12-1990	SU	1611859	A1	07-12-1990
US 4098684	A	04-07-1978	CA	1104941	A1	14-07-1981